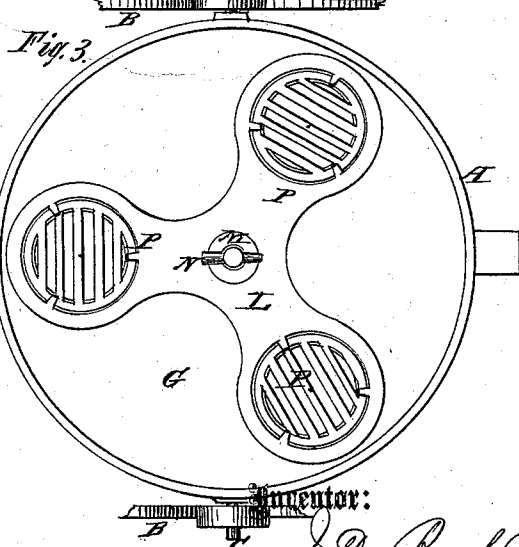
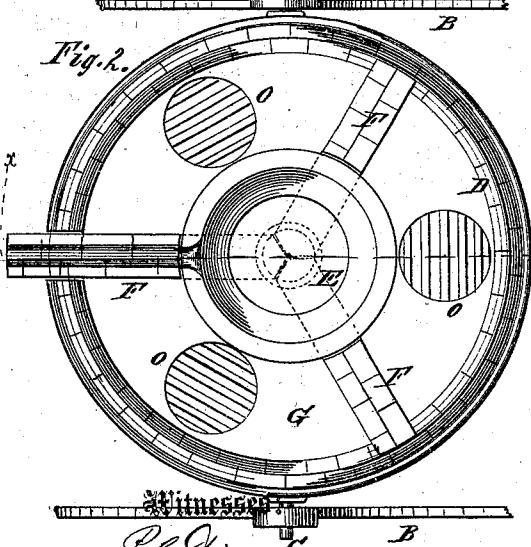
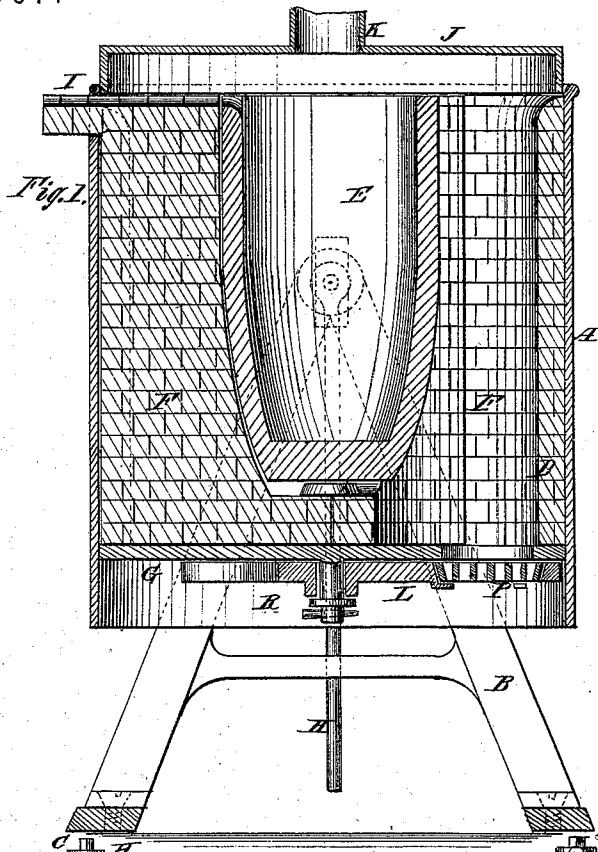


I. D. BUSH.

Furnaces for Melting Brass and other Metals.

No. 135,967.

Patented Feb. 18, 1873.



Witnessed:
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UNITED STATES PATENT OFFICE.

IRA D. BUSH, OF DETROIT, MICHIGAN.

IMPROVEMENT IN FURNACES FOR MELTING BRASS AND OTHER METALS.

Specification forming part of Letters Patent No. 135,967, dated February 18, 1873.

To all whom it may concern:

Be it known that I, IRA D. BUSH, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Brass Furnaces; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification.

The invention consists of a rotating grate-frame, constructed and arranged in a furnace, substantially as hereinafter described and claimed.

Figure 1 represents a vertical section of the furnace with the crucible, in plane, the section being taken on the line *xx* of Fig. 2. Fig. 2 is a top view with the cover off the furnace. Fig. 3 is a bottom view showing the movable grate-plate and grates.

A is the furnace, which is supported in the frame B on the trunnions C C. D is the furnace-lining. E is the crucible, in which the brass or other metal is melted. F represents partitions. H is a lever; and I is a spout from the mouth or lip of the crucible on top of one of

the partitions. J is the furnace-cover. The chimney-pipe is attached to the collar K. L is my improved grate frame or plate, confined to the under side of the furnace-bottom on a central pivot, M, and pin N. There are three, more or less, air-ports, O, in the bottom of the furnace, one for each space or compartment in the furnace between the partitions. Each of these apertures is provided with a removable grate, P, either attached to or cast with the rotating grate plate or frame L.

By turning the plate the grates are readily removed from the air-ports, which allows cinders and refuse to be discharged during the process of melting.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The rotary frame L, having grates with ports O P, arranged on a pivot, M, in furnace, as and for the purpose described.

IRA D. BUSH.

Witnesses:

JOHN J. LEONARD,
C. L. ANDREWS.